

Abstract

The invention relates to an apparatus for determining and/or monitoring a process variable of a medium. The apparatus includes: An oscillatable unit (1) secured on a membrane (5); a sending/receiving unit (6), which excites the membrane (5) and the oscillatable unit (1) to oscillate and which receives oscillations of the oscillatable unit (1). The sending/receiving unit (6) is a disk-shaped, piezoelectric element (15). The apparatus further includes a control/evaluation unit (10), which, on the basis of oscillations of the oscillatable unit (1), monitors and/or determines the process variable. According to the invention, the disk-shaped, piezoelectric element (15) has segments (18), which are essentially polarized oppositely to one another, and at least two electrodes (20) of opposite polarity are applied to the side (16) of the disk-shaped, piezoelectric element (15) facing away from the membrane (5).